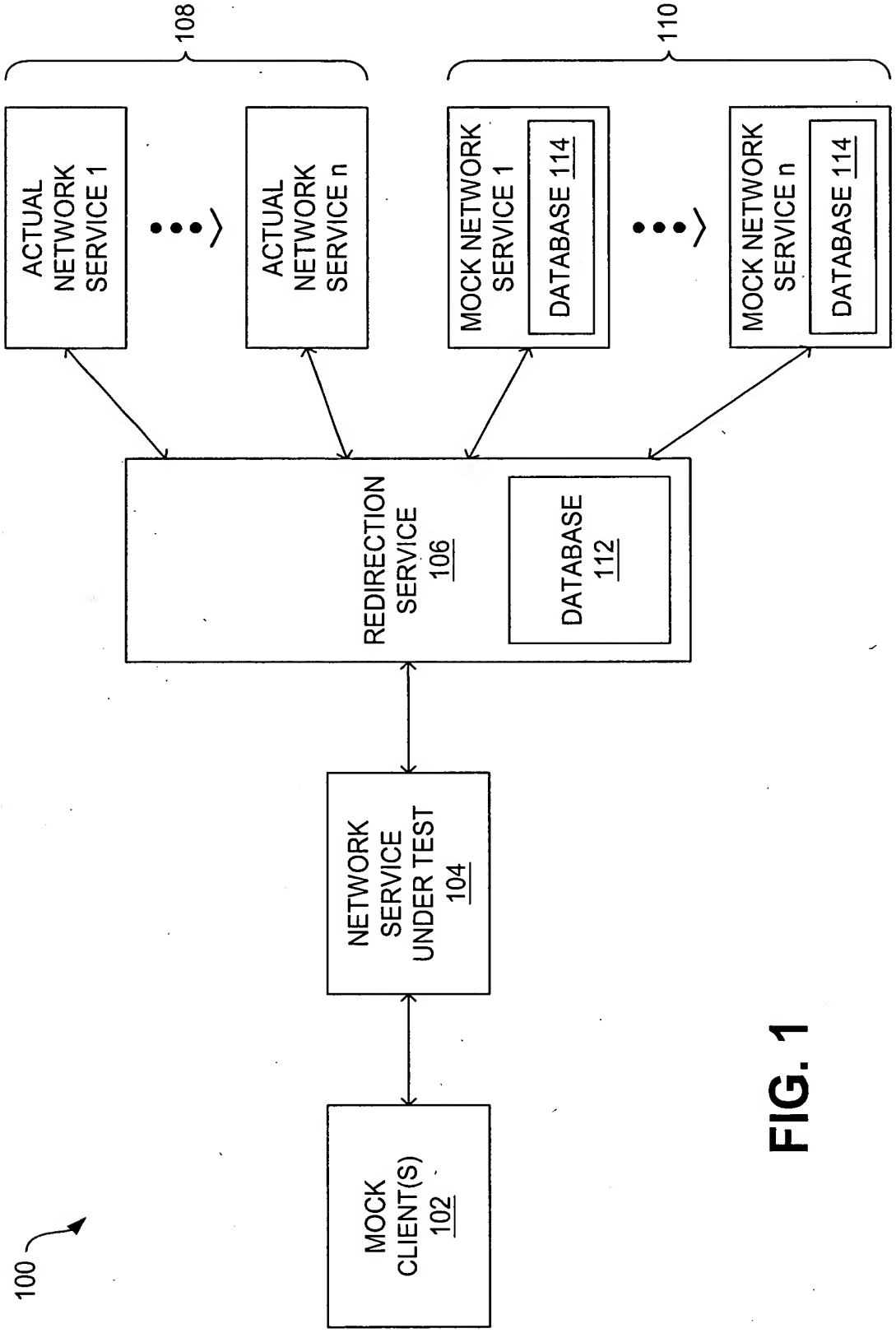
100
MOCK CLIENT(S) 102
NETWORK SERVICE UNDER TEST 104
REDIRECTION SERVICE 106
DATABASE 112
108
ACTUAL NETWORK SERVICE 1
ACTUAL NETWORK SERVICE n
110
MOCK NETWORK SERVICE 1
DATABASE 114
MOCK NETWORK SERVICE n
DATABASE 114

FIG. 1

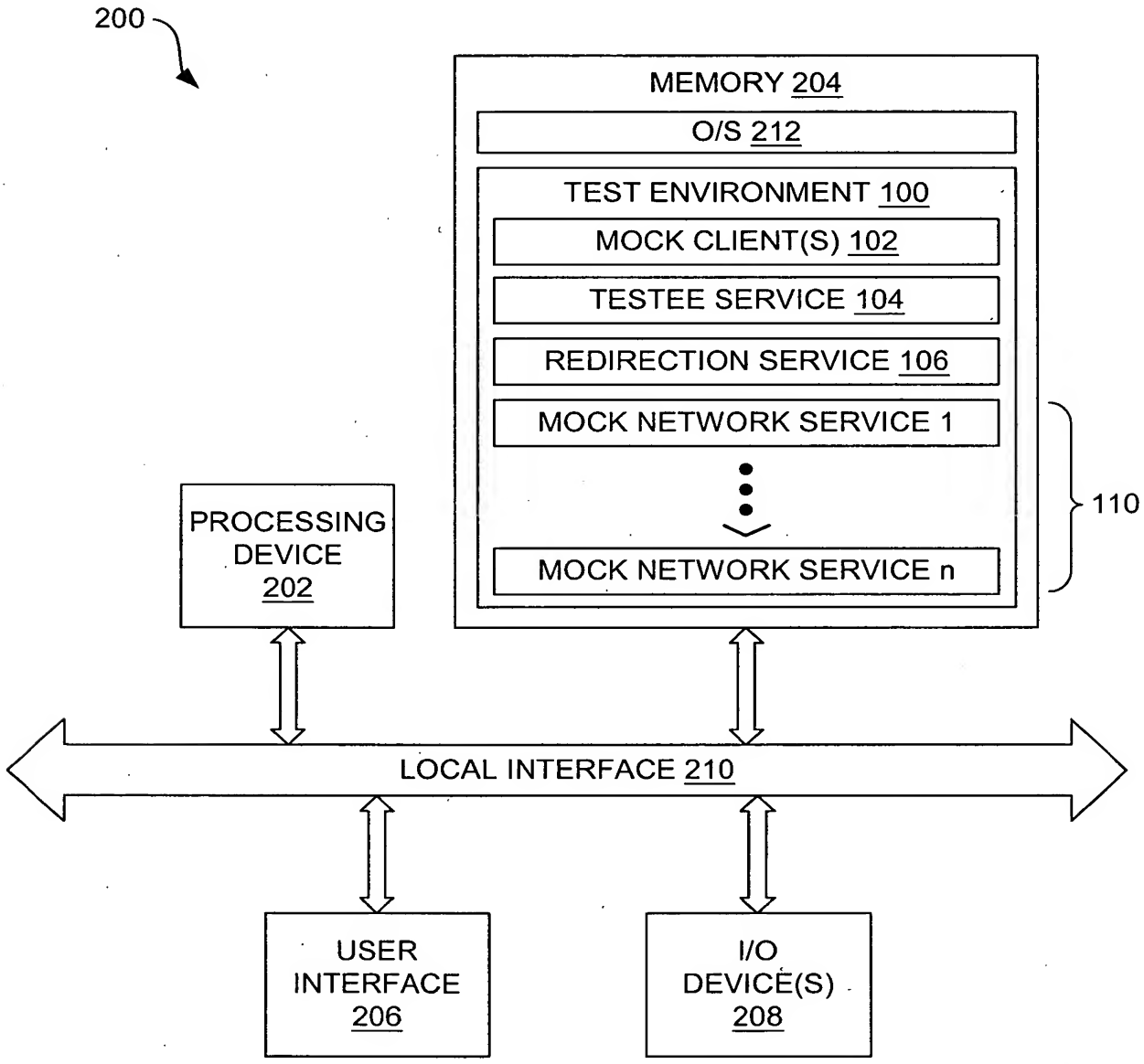
200
MEMORY 204
O/S 212
TEST ENVIRONMENT 100
MOCK CLIENT(S) 102
TESTEE SERVICE 104
REDIRECTION SERVICE 106
MOCK NETWORK SERVICE 1
MOCK NETWORK SERVICE n
110
PROCESSING DEVICE 202
LOCAL INTERFACE 210
USER INTERFACE 206
I/O DEVICE(S) 208

FIG. 2

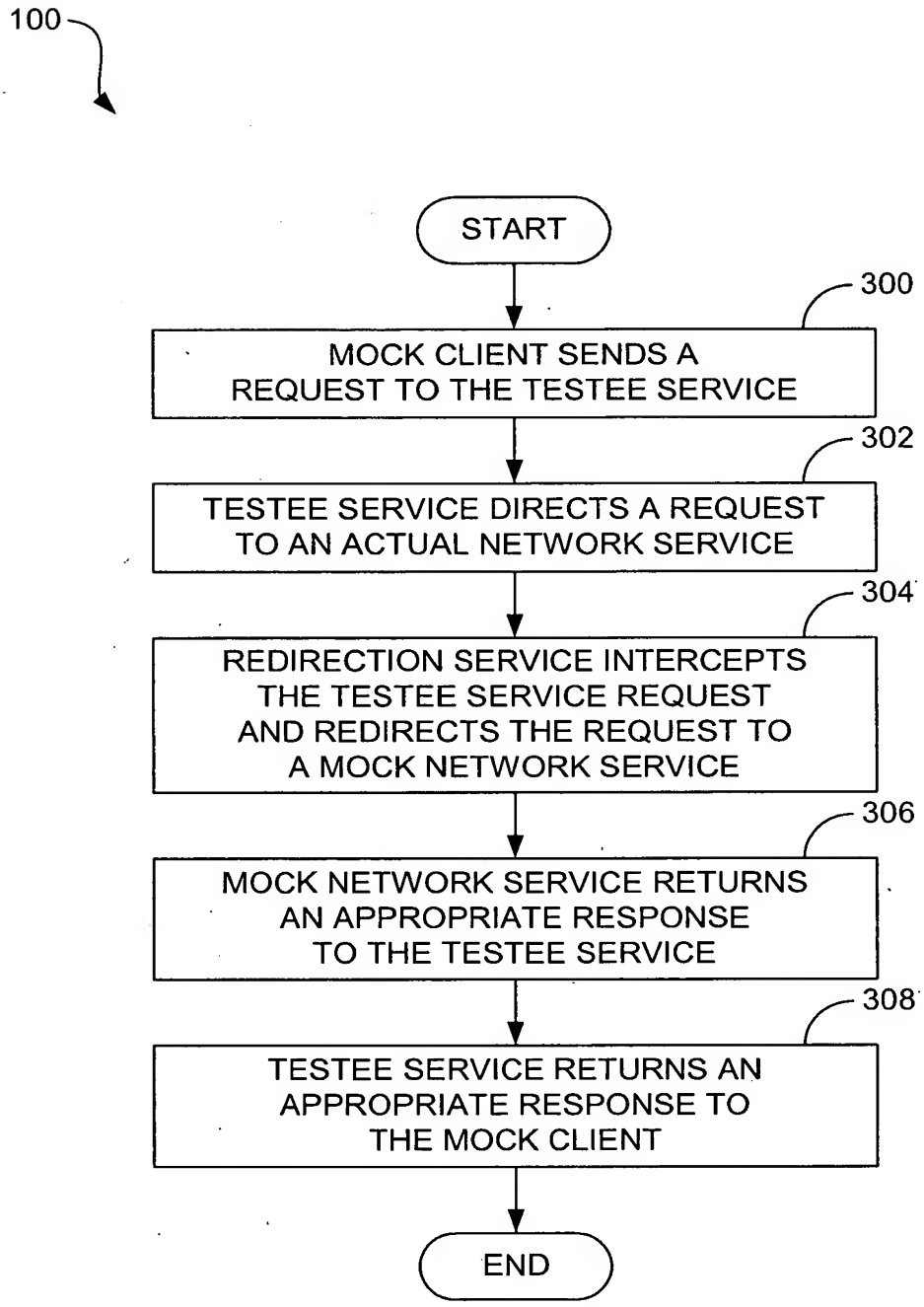
100
START
300
MOCK CLIENT SENDS A REQUEST TO THE TESTEE SERVICE
302
TESTEE SERVICE DIRECTS A REQUEST TO AN ACTUAL NETWORK SERVICE
304
REDIRECTION SERVICE INTERCEPTS THE TESTEE SERVICE REQUEST AND REDIRECTS THE REQUEST TO A MOCK NETWORK SERVICE
306
MOCK NETWORK SERVICE RETURNS AN APPROPRIATE RESPONSE TO THE TESTEE SERVICE
308
TESTEE SERVICE RETURNS AN APPROPRIATE RESPONSE TO THE MOCK CLIENT
END

FIG. 3

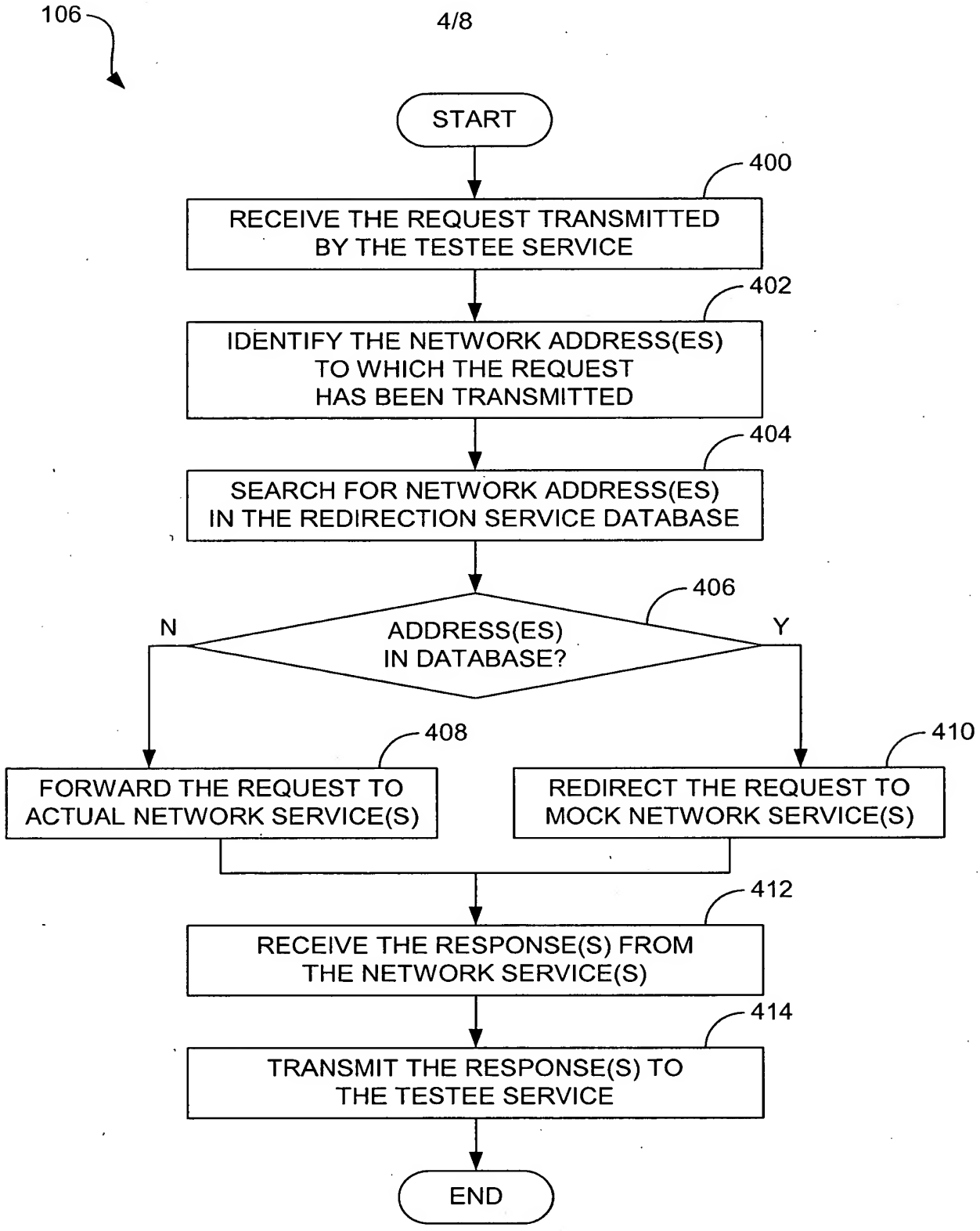
106
START
400
RECEIVE THE REQUEST TRANSMITTED BY THE TESTEE SERVICE
402
IDENTIFY THE NETWORK ADDRESS(ES) TO WHICH THE REQUEST HAS BEEN TRANSMITTED
404
SEARCH FOR NETWORK ADDRESS(ES) IN THE REDIRECTION SERVICE DATABASE
406
ADDRESS(ES) IN DATABASE?
N
Y
408
FORWARD THE REQUEST TO ACTUAL NETWORK SERVICE(S)
410
REDIRECT THE REQUEST TO MOCK NETWORK SERVICE(S)
412
RECEIVE THE RESPONSE(S) FROM THE NETWORK SERVICE(S)
414
TRANSMIT THE RESPONSE(S) TO THE TESTEE SERVICE
END

FIG. 4

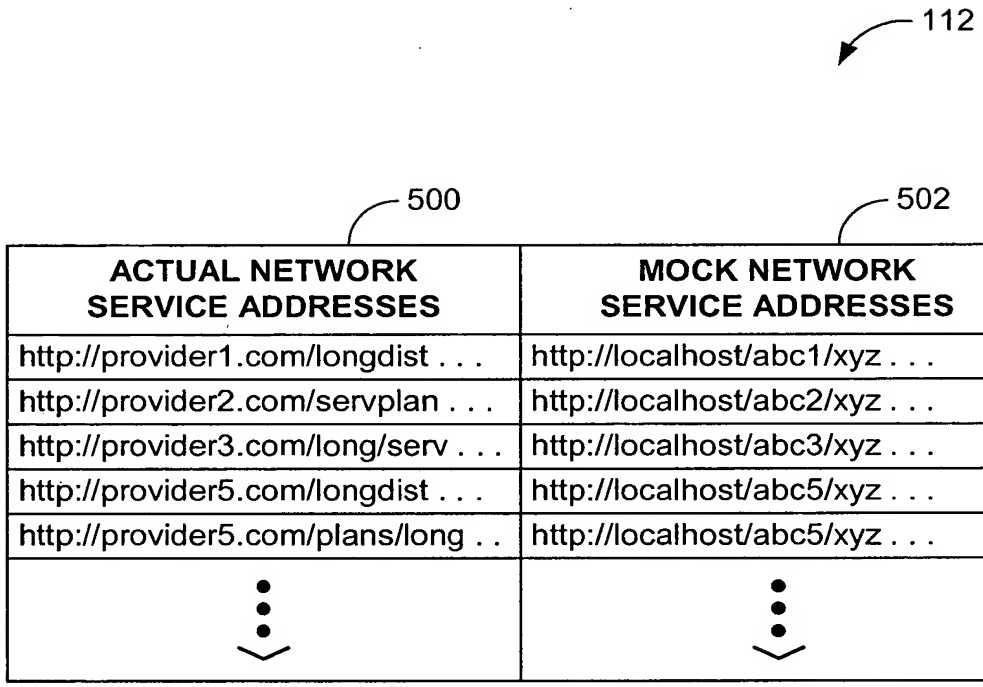
112
500
502
ACTUAL NETWORK SERVICE ADDRESSES
MOCK NETWORK SERVICE ADDRESSES
http://provider1.com/longdist . . .
http://localhost/abc1/xyz . . .
http://provider2.com/servplan . . .
http://localhost/abc2/xyz . . .
http://provider3.com/long/serv . . .
http://localhost/abc3/xyz . . .
http://provider5.com/longdist . . .
http://localhost/abc5/xyz . . .
http://provider5.com/plans/long . .
http://localhost/abc5/xyz . . .

FIG. 5

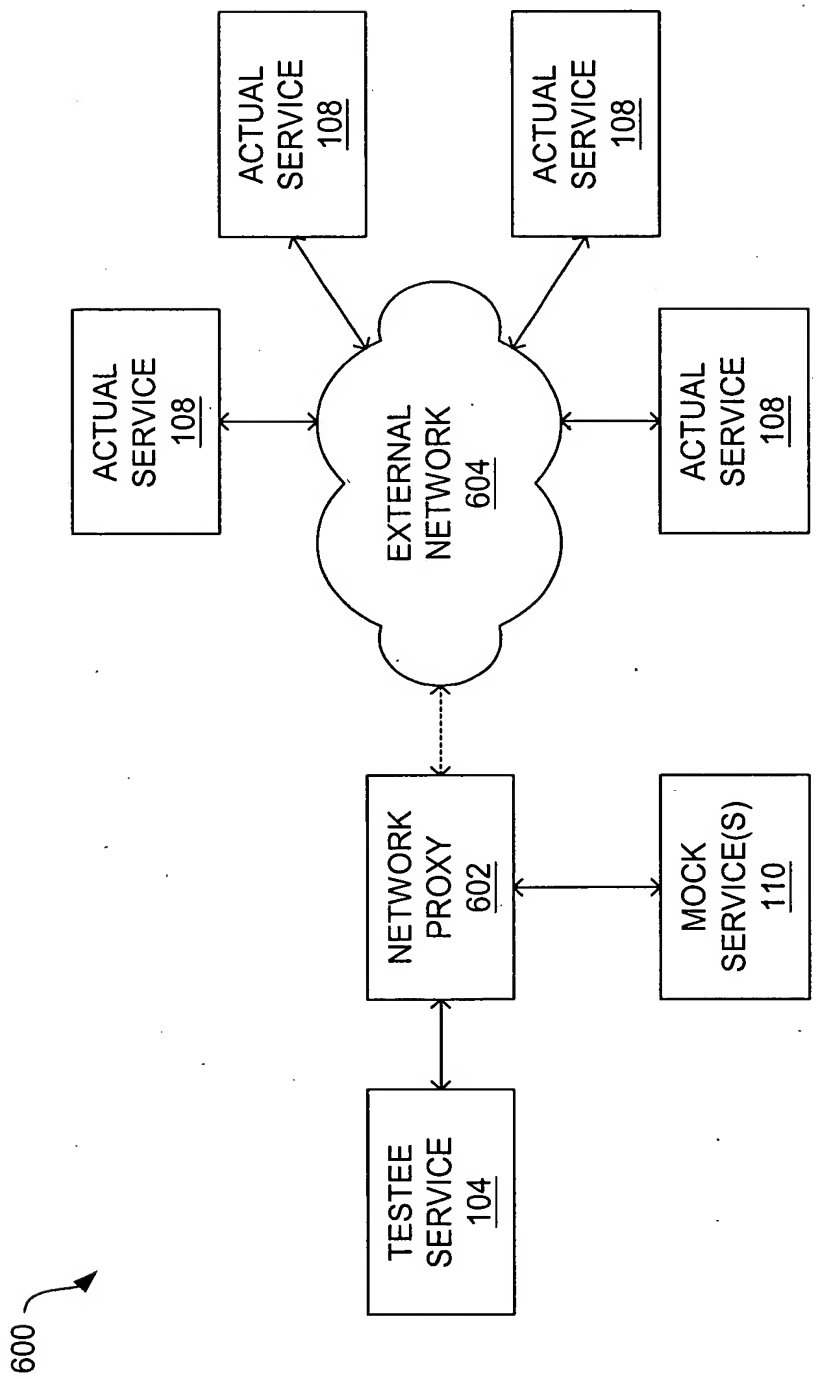
ACTUAL SERVICE 108
ACTUAL SERVICE 108
ACTUAL SERVICE 108
ACTUAL SERVICE 108
EXTERNAL NETWORK 604
NETWORK PROXY 602
MOCK SERVICE(S) 110
TESTEE SERVICE 104
600

FIG. 6

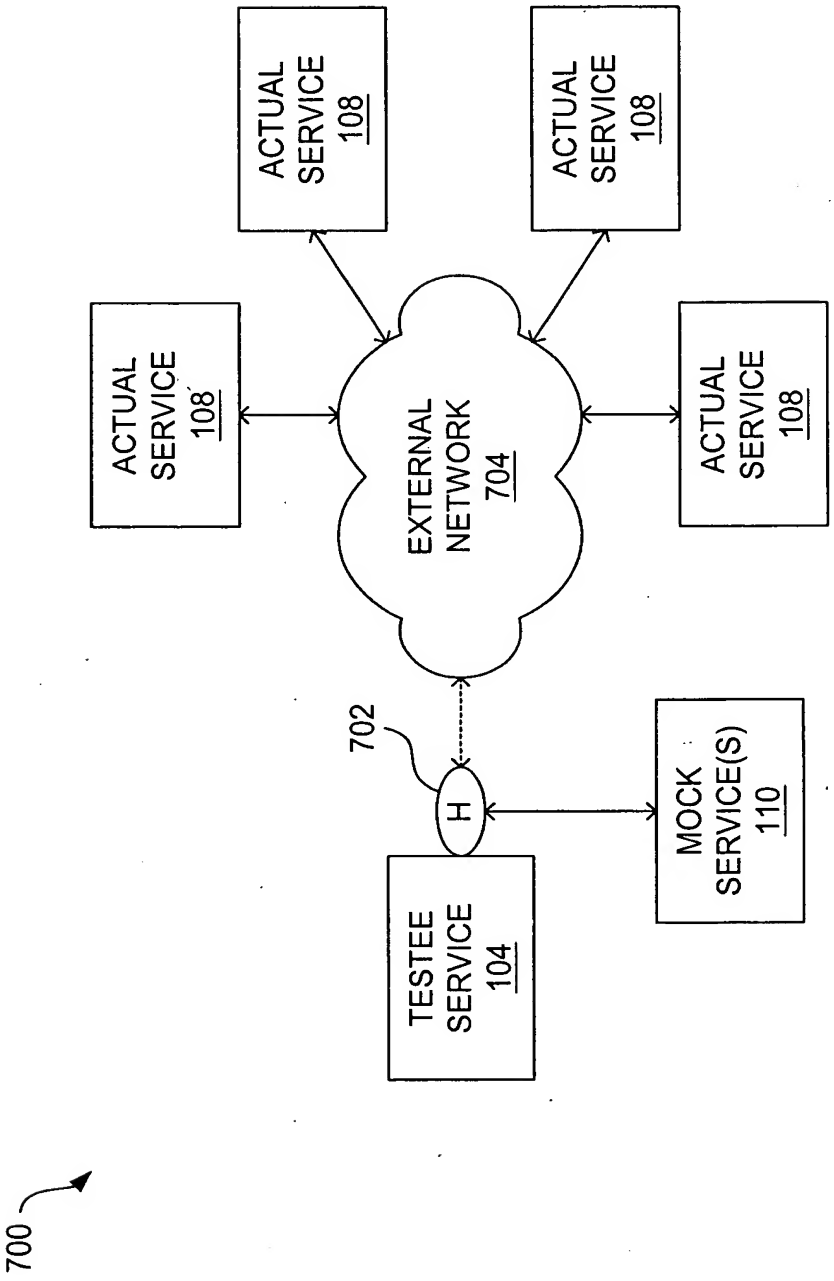
ACTUAL SERVICE 108
ACTUAL SERVICE 108
ACTUAL SERVICE 108
ACTUAL SERVICE 108
EXTERNAL NETWORK 704
702
H
MOCK SERVICE(S) 110
TESTEE SERVICE 104
700

FIG. 7

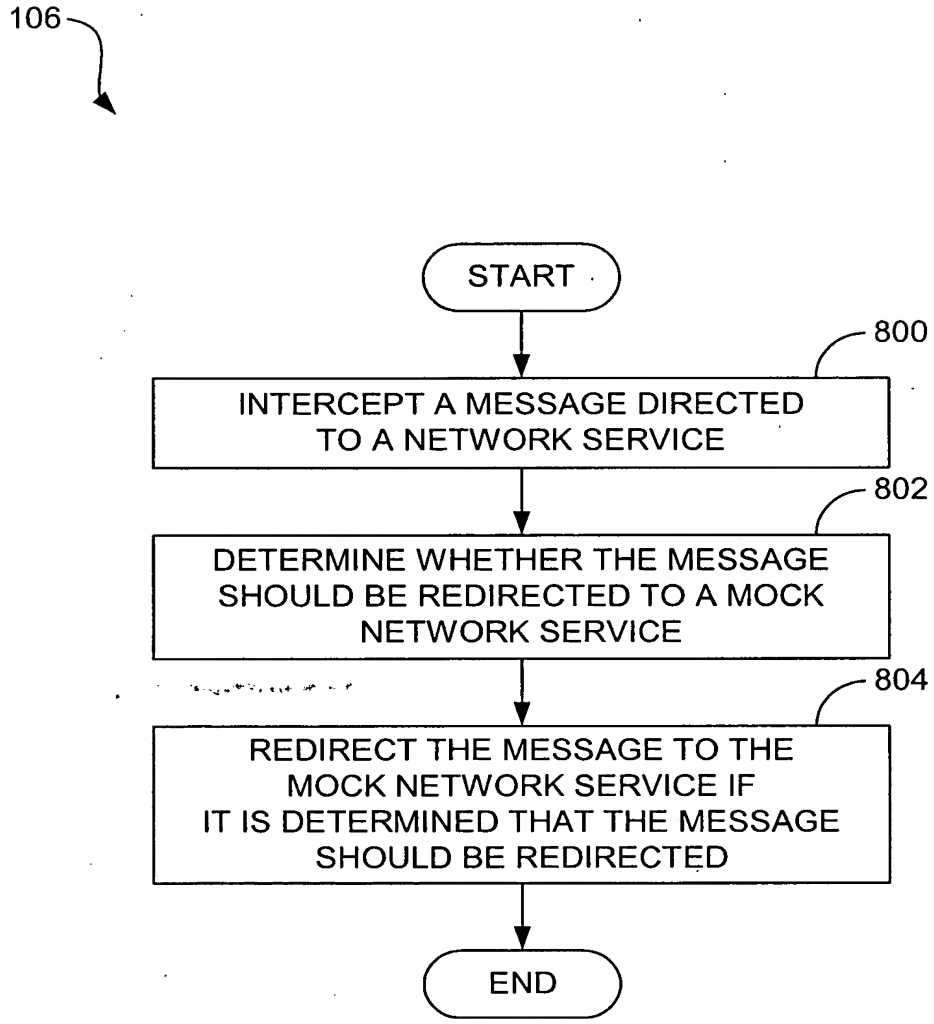
106
START
800
INTERCEPT A MESSAGE DIRECTED TO A NETWORK SERVICE
802
DETERMINE WHETHER THE MESSAGE SHOULD BE REDIRECTED TO A MOCK NETWORK SERVICE
804
REDIRECT THE MESSAGE TO THE MOCK NETWORK SERVICE IF IT IS DETERMINED THAT THE MESSAGE SHOULD BE REDIRECTED
END

FIG. 8